

SCOPE OF WORK AND SCHEDULE

1. Time Oil Co. shall carry out the provisions of the Workplan in a manner and time frame as described herein. The term “Workplan” is defined to consist of this Exhibit (Scope of Work and Schedule).
2. Time Oil Co. shall implement the tasks detailed in the Workplan in accordance therewith and within the due dates specified, including, but not limited to, the following deliverables:

Due Date: **Three (3) Months from Effective Date of Decree**

The engineering design report shall be prepared by or under the direct supervision of a registered professional engineer and shall be submitted in accordance with WAC 173-340-400 (a) through (c) with a preliminary compliance monitoring plan in accordance with WAC 173-340-410. The report shall include the following:

- a. Goals of the cleanup action, including specific cleanup or performance requirements.
- b. General information on the Site, including a summary of information in the remedial investigation/feasibility study updated as necessary to reflect the current conditions;
- c. Identification of who will own, operate, and maintain the Site and the cleanup action following construction;
- d. Facility maps, of minimum dimension two feet square, showing existing Site conditions and proposed location of the cleanup action/components, including surface water drainage features and storm water conveyances;
- e. Location of materials, if any, to be treated or otherwise managed;
- f. A schedule for construction of the remedial action and monitoring systems, including a critical timing chart for accomplishing major milestones.
- g. A description and conceptual plan of the remaining final cleanup action per the Final Cleanup Action Plan (Exhibit B). The Conceptual Design shall document:

g-1 Installation of groundwater/petroleum hydrocarbon extraction wells and associated piping at the distal end of the plume to capture groundwater and conduct it to the existing treatment system; and additions and/or modifications to the groundwater/petroleum hydrocarbon treatment system as required.

g-2 Installation of an *in-situ* air sparging and soil vapor extraction treatment system in the station area.

g-3 Installation of monitoring wells as needed in the mid-plume that will be used in addition to existing wells to monitor intrinsic bioremediation.

- h. Engineering justification for design parameters, including design criteria, assumptions, and calculations for all components of the cleanup action, and demonstration that the cleanup action will achieve compliance with cleanup requirements.
- i. Design features for control of hazardous materials spills and accidental discharge (for example, containment structures, leak detection devices, run-on and run-off controls);
- j. Design features to assure long-term safety of workers and local residences as applicable (for example, hazardous substances monitoring devices, wind speed/direction monitors);
- k. A discussion of methods for management or disposal of any treatment residual and other waste materials containing hazardous substances generated as a result of the cleanup action;
- l. Facility specific characteristics which may affect design, construction, or operation of the selected cleanup action, including: Relationship of the proposed cleanup action to existing area and facility operations, probability of flooding, temperature extremes, planned post-remedial site uses/activities, local planning and development issues;
- m. Any information not provided in the remedial investigation/feasibility study needed to fulfill all applicable requirements of the State Environmental Policy Act (Chapter 43.21C RCW), and any additional information needed to address the applicable state, federal, and local requirements;
- n. Detailed final as-built drawings and operation and maintenance manual for operation of the cleanup systems prepared in conformance with currently accepted engineering practices and techniques. This shall include mapping of all

new and existing Site wells, remedial action piping and treatment system components, design details of monitoring wells and product recovery wells;

- o. Describe methodology and results of quality control (QC) tests performed as applicable, including specification for the testing or reference to specific testing methods, frequency of testing, acceptable results, and other documentation methods.

- p. A Compliance Monitoring Plan prepared under WAC 173-340-410 describing monitoring performed during construction and operation, as applicable, and a sampling and analysis plan meeting the requirements of WAC 173-340-820.

q-1. This section shall include a Protection Monitoring Plan, per WAC 173-340-410(1)(a), to confirm that human health and the environment are protected during cleanup action construction, including monitoring and plans to minimize waste inhalation, skin contact, mud and dust generation, surface water run-off, and waste spillage during construction.

q-2. This section shall also include a Confirmation Monitoring Plan, per WAC 173-340-410(1)(c). This plan will be designed to confirm the long-term effectiveness of the cleanup action. This plan will also include a groundwater monitoring schedule pursuant to the final cleanup action plan (Exhibit B) for the Site designed to ensure that compliance with Site surface water cleanup standards are maintained outside of the Site points of compliance, and to track groundwater flow, free product distribution and contaminant concentrations within the Site.

Groundwater monitoring and reporting will occur quarterly for two years following substantial completion of construction. Semi-annual monitoring and reporting will be required in years three through eight. Annual monitoring and reporting will be required in years 8 through 15. Monitoring may be terminated only after Ecology affirms in writing that groundwater cleanup levels, as

specified in section 2.1 of the CAP, have been attained. The plan shall include proposed well locations and depths, construction, sampling and analysis methodology and plan per WAC 173-340-820, and sampling frequency. The Compliance Monitoring Plan will also include a methodology to be used to determine whether an exceedance of surface water standards has occurred based on surface water monitoring points of compliance. The methodology will also identify when or whether a contingency groundwater cleanup action is needed.

- q. Safety and Health Plan per WAC 173-340-810.
- r. Operation and Maintenance Plan. A plan for operation and maintenance of the final remedial actions systems shall include operating instructions, control parameters, safety limits, etc. for the groundwater/product extraction and treatment systems as well as a listing of regular maintenance items and inspection and maintenance procedures and frequencies. The plan shall present technical guidance and regulatory requirements to assure effective operations under both normal and emergency conditions. The operation and maintenance plan shall include the following elements, as appropriate:
 - (i) Name and phone number of the responsible individuals;
 - (ii) Process description and operating principles;
 - (iii) Design criteria and operating parameters and limits;
 - (iv) General operating procedures, including startup, normal operations, operation at less than design loading, shutdown, and emergency or contingency procedures;
 - (v) A discussion of the detailed operation of individual treatment units, including a description of various controls, recommended operating parameters, safety features, and any other relevant information;

- (vi) Procedures and sample forms for collection and management of operating and maintenance records;
- (vii) Spare part inventory, addresses of suppliers of spare parts, equipment warranties, and appropriate equipment catalogues;
- (viii) Equipment maintenance schedules incorporating manufacturers recommendations;
- (ix) Contingency procedures for spills, releases, and personnel accidents;
- (x) Description of procedures which assure that the safety and health requirements of WAC 173-340-810 are met, including specification of contaminant action levels and contingency plans, as appropriate;
- (xi) Other information as required by the Department of Ecology.

Task 2 Final Engineering Design Report

Date Due: Two (2) months after receipt of Ecology's comments on the draft report.

Time Oil Co. shall submit a final Engineering Design Report which amends the draft Engineering Design Report to satisfy all written comments submitted by Ecology regarding the draft report.

Task 3 Construction, Operation and Maintenance of Final Cleanup Action

Due Date: Substantial completion of construction within six (6) months of Ecology's approval of the Final Engineering Design Report.

Construction of the final cleanup actions shall be performed in accordance with, and shall execute the requirements of the Ecology-approved Engineering Design Report.

All aspects of construction shall be performed under the supervision of a professional engineer registered in the State of Washington or a qualified technician, under the direct

supervision of a professional engineer registered in the State of Washington. During construction, detailed records shall be kept of all aspects of the work performed, including construction techniques and materials used, items installed, and tests and measurements performed.

Operation and maintenance of all remedial action systems shall be in conformance with, and shall execute the applicable requirements of, the following Ecology-approved Workplan Deliverables: Engineering Design Report, Operation and Maintenance Plan, and Compliance Monitoring Plan.

Startup, operation and maintenance of the final remedial action system shall begin upon completion of system construction and shall follow the Operation and Maintenance Plan as approved by Ecology. The remedial systems shall thenceforth be run continuously with minimum down time, until such time as Ecology approves each remedial system shut down in writing.

Task 4 Compliance Monitoring and Reporting

Due Date: Reports are due one (1) month after each calendar quarter for the first two (2) years, then one (1) month after each Jan-June and July-Dec. periods.

Compliance monitoring shall be performed in accordance with the Ecology approved Compliance Monitoring Plan. Reports shall be due quarterly for the first two (2) years of system operations and semi-annually thereafter, until Ecology affirms in writing that Site groundwater and surface water maintaining compliance with Site Cleanup levels per the CAP.

Task 5 Project Record Drawings

Date Due: Three (3) months after completion of cleanup action construction.

At the completion of construction, the engineer responsible for the supervision of construction shall prepare Project Record Drawings and a report documenting all aspects of Site construction work, including those portions of the final remedial systems which had been constructed prior to the issuance of this decree.

The report shall also contain an opinion from the project manager and the engineer, based on the testing results and inspections, as to whether the remedial systems have been completed in substantial compliance with the plans and specifications and related documents.

Task 6 Three-Year Review

Date Due: Three (3) years from the date of substantial completion of the cleanup action.

Ecology and Time Oil Co. will review the performance of the Site cleanup progress. If it is determined that the remedial action will comply with Site Cleanup levels within ten (10) years of the effective date of this Decree, then Time Oil Co. shall continue the Site cleanup per the final Cleanup Action Plan. If it is determined that the ten (10) year restoration time frame will not be met at the points of compliance, the CAP will be revised and the Decree amended with public notice and comment.